

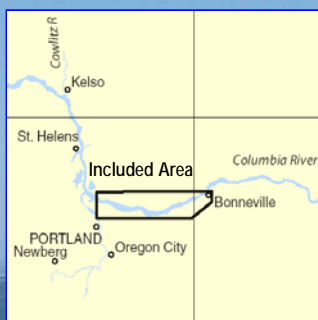
BookletChart™

Columbia River – Vancouver to Bonneville

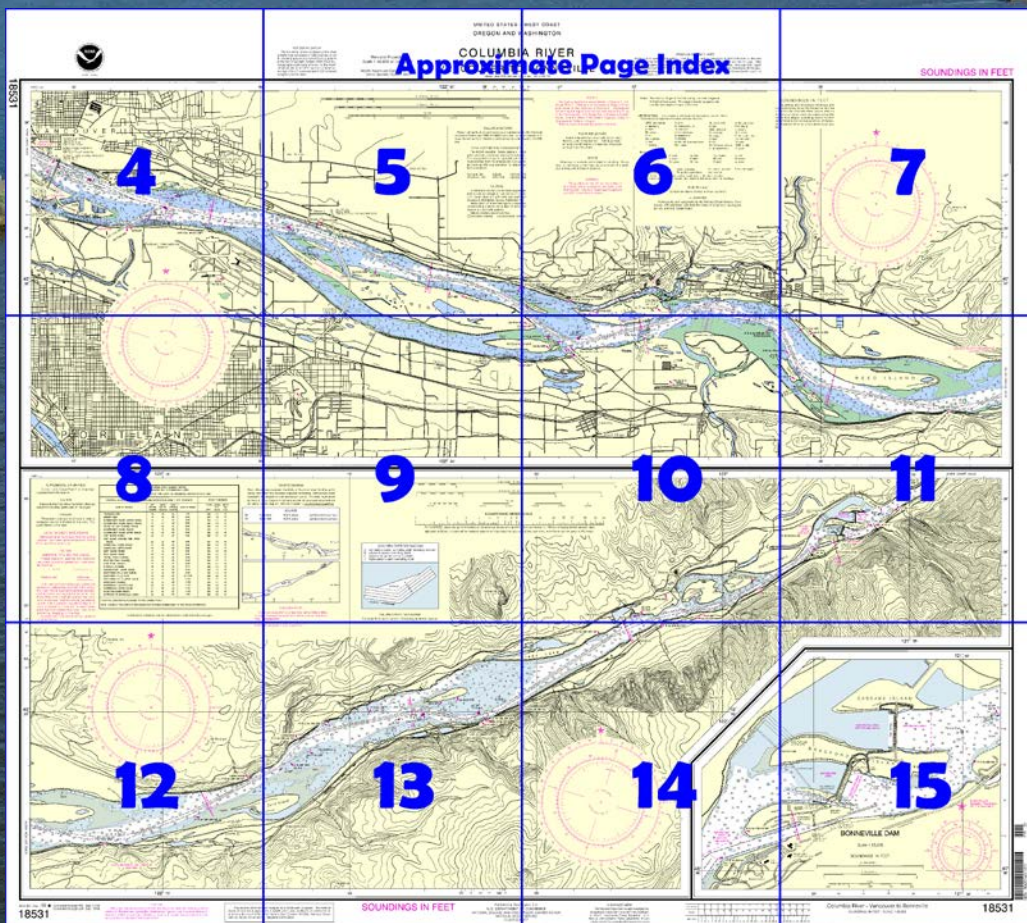
NOAA Chart 18531

A reduced-scale NOAA nautical chart for small boaters

When possible, use the full-size NOAA chart for navigation.



- Complete, reduced-scale nautical chart
- Print at home for free
- Convenient size
- Up-to-date with Notices to Mariners
- Compiled by NOAA's Office of Coast Survey, the nation's chartmaker



Published by the
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Coast Survey
www.NauticalCharts.NOAA.gov
888-990-NOAA

What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart™?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at <http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=18531>.



(Selected Excerpts from Coast Pilot)

From Vancouver to Bonneville, Mile 126 (145), Columbia River passes through the **Columbia River Gorge**.

Ryan Point, 1.4 miles ESE of the Interstate 5 highway bridge, is the site of a public launching ramp.

There are many full service marinas, yacht clubs, and moored houseboats along the Oregon shore from Interstate 5 highway bridge to the W end of Government Island.

Anchorage.—A special anchorage is

between **Tri-Club Island 18531** **Tri-Club Island** (Sand Island) and **Lemon Island**, the W end of **Government Island**. (See **110.1** and **110.128**,

chapter 2, for limits and regulations.)

The entrance to **Sandy River** on the Oregon side opposite Camas, bares at low water. At higher flood stages, passage up Sandy River as far as **Troutdale** is possible.

Dangers.—In this section of the river, the principal hazards to navigation are the strong currents, rocks and rocky banks, winds, and an accumulation of ice.

Currents.—In general, currents run fair with the main channels with considerable intensity, increasing in regions upstream toward Bonneville. Exceptions are the turn in the channel at Washougal Light 50, where a NW set prevails; SW of **Cape Horn**, where a W set is experienced; and the region between Fashion Reef and Multnomah Falls, where a S set is experienced.

Near **Warrendale**, Mile 123 (141.5), the river becomes very constricted within less than a mile and continues so almost to the approach to the locks of Bonneville Dam, at the lower end of **Bradford Island**.

Beacon Rock, 840 feet high and 300 yards inshore, is on the Washington side opposite Warrendale. A State park of the same name surrounds the rock. The park maintains a mooring float just inside the entrance to the channel W of **Pierce Island**; moorage is restricted to pleasure boats and to periods not to exceed 5 nights. Water, electricity, and pump-out facility are available at the park.

Bonneville, on the Oregon side at Mile 126 (145), is the headquarters of the U.S. Army Corps of Engineers in charge of the Bonneville Lock and Dam.

Bonneville Lock and Dam, 126.3 (145.3) miles above the mouth of the Columbia River, is in four parts. Powerhouse No. 2 is between the Washington shore and Cascade Island; the spillway is between Cascade Island and Bradford Island; Powerhouse No. 1 and the old lock are between Bradford Island and Robins Island; and the new lock is between Robins Island and the Oregon shore. The new navigation lock has a vertical lift of about 59 feet, a width of 86 feet and a length of 675 feet. The old lock has been placed in mothball status. Restricted areas are above and below the spillway and powerhouse. (See **207.718**, chapter 2, for information concerning use, administration, and navigation of Bonneville Lock and Dam.)

The strong current toward the powerhouse makes it difficult to approach Bonneville Lock from upstream, particularly if the lock is approached at an angle and if a turn is to be executed in time to avoid an accident. Therefore, all craft approaching the lock from the E and pushing one or more barges should steer as close to the Oregon mainland shore as safety will permit, should be in line with the lock upon reaching the E end of the guide wall, and should continue at a steady but reduced speed if the lock is prepared for entrance and the signal for entrance has been given.

From Bonneville to The Dalles, the channel is through the pool created by Bonneville Dam, which extends 40 (46) miles to The Dalles Dam. Depths and overhead clearances are at **normal pool level**.

Although there is deep water in much of the pool, the controlling depth to The Dalles Dam navigation lock is about 20 feet. The channels are marked by aids to navigation.

Currents.—From the lock at Bonneville through Cascade Rapids, constant piloting is necessary because of the strong currents. From Cascade Rapids E, a set of 1° to 3° may be experienced depending on the angle that the course makes with the general direction of the river, the strength of the current, and the direction and strength of the wind.

U.S. Coast Guard Rescue Coordination Center 24 hour Regional Contact for Emergencies

RCC Seattle

Commander
13th CG District
Seattle, WA

(206) 220-7001

Navigation Managers Area of Responsibility



NOAA's navigation managers serve as ambassadors to the maritime community.

They help identify navigational challenges facing professional and recreational mariners, and provide NOAA resources and information for safe navigation. For additional information, please visit nauticalcharts.noaa.gov/service/navmanagers

To make suggestions or ask questions online, go to nauticalcharts.noaa.gov/inquiry.

To report a chart discrepancy, please use ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx.

Lateral System As Seen Entering From Seaward

on navigable waters except Western Rivers



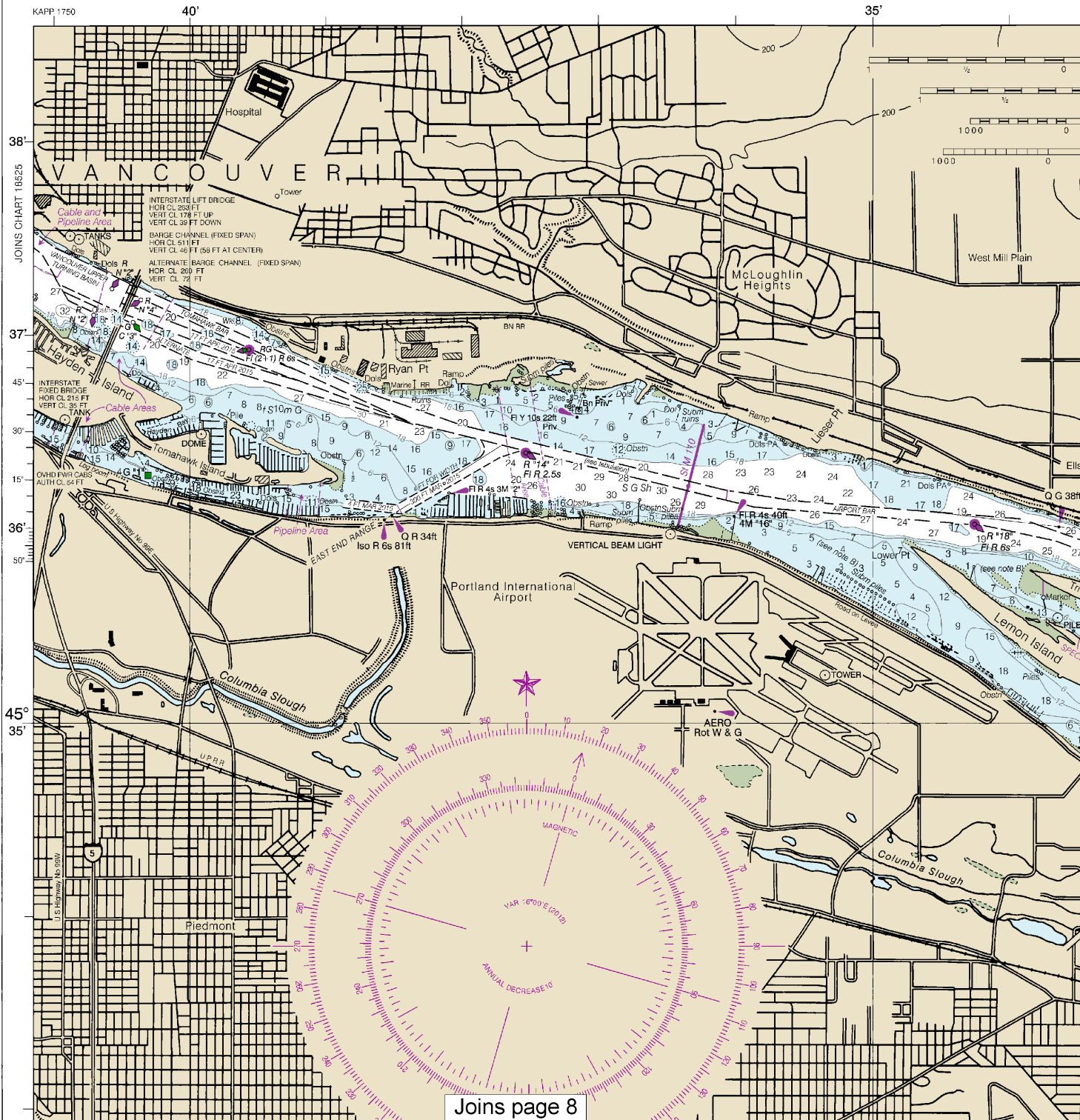
For more information on aids to navigation, including those on Western Rivers, please consult the latest USCG Light List for your area.

These volumes are available online at <http://www.navcen.uscg.gov>



HORIZONTAL DATUM
The horizontal reference datum is North American Datum of 1983 (for charting purposes is considered to the World Geodetic System 1983). Geographic positions referred to the American Datum of 1927 must be average of 0.570" southward and 4" to agree with this chart.

18531



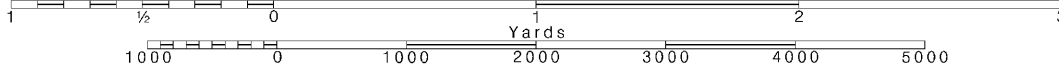
4

Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:40,000
Nautical Miles

See Note on page 5.



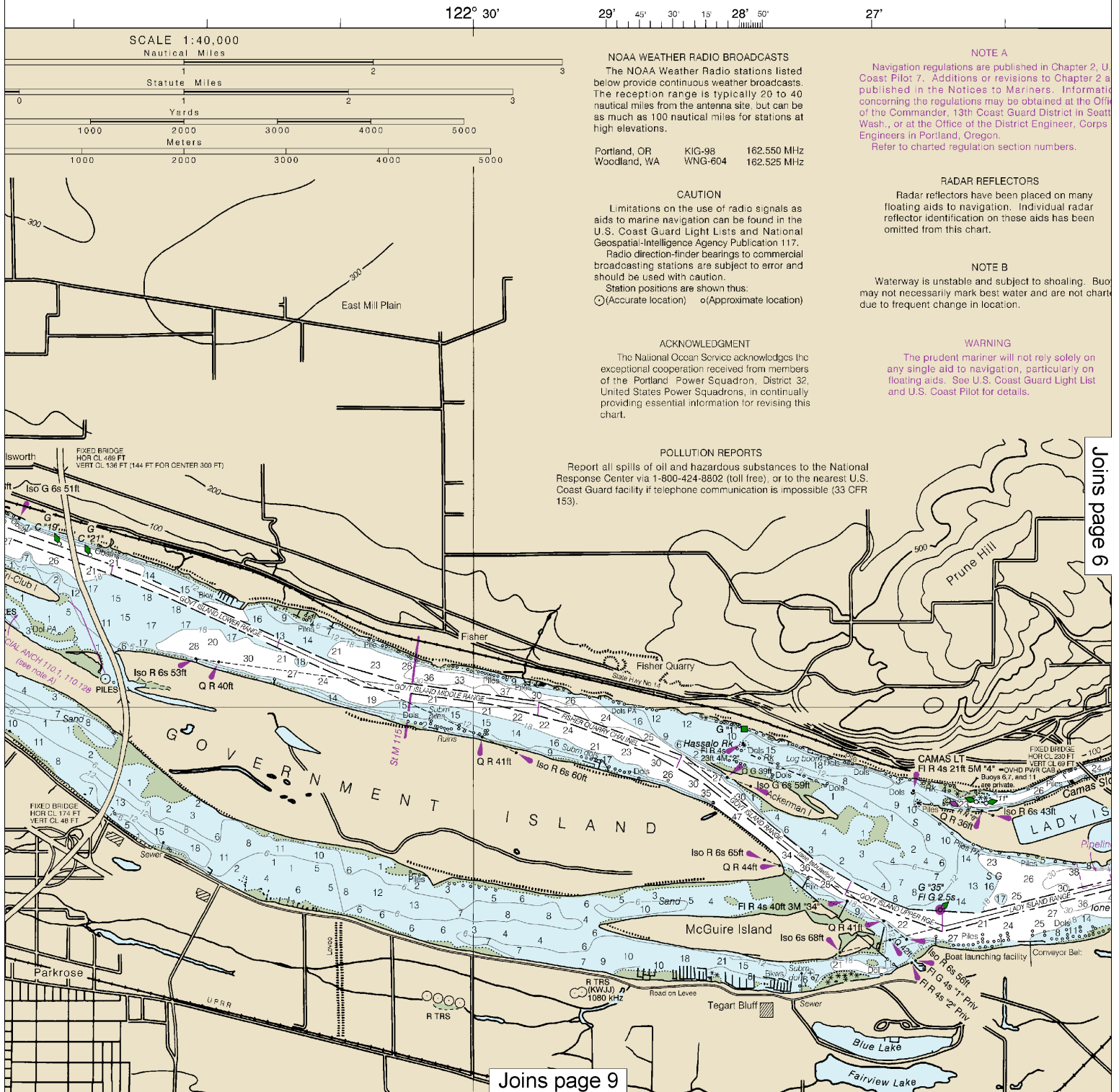
COLUMBIA RIVER VANCOUVER TO BONNEVILLE

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Mercator Projection
Scale 1:40,000 at Lat 45° 35'

North American Datum of 1983
(World Geodetic System 1984)

Formerly C&GS 6156, 1st Combined Ed., Apr. 1953 G-1951-789

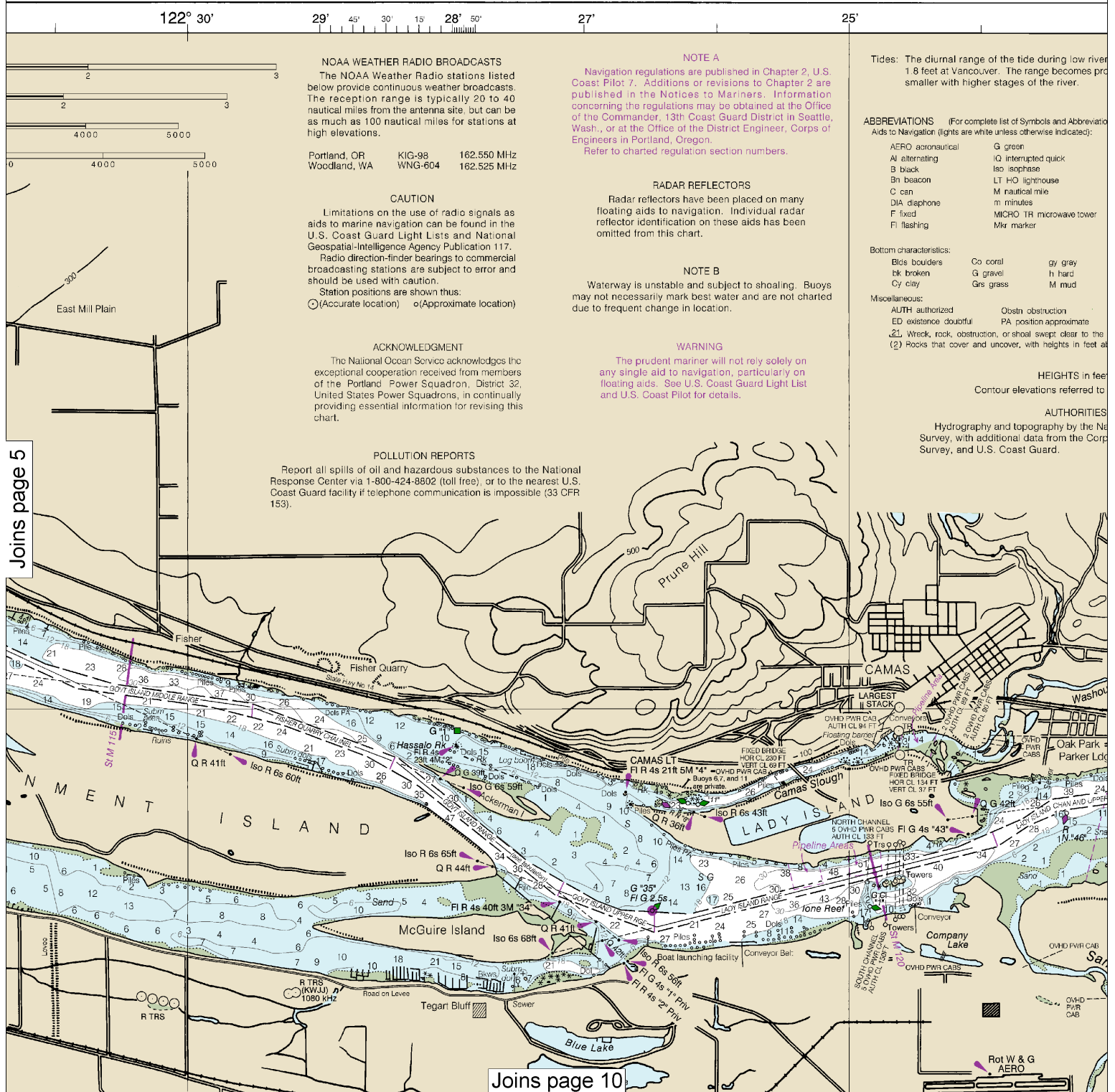


COLUMBIA RIVER

VANCOUVER TO BONNEVILLE

Section
at 45° 35'
Form of 1983
(from 1984)

Formerly C&GS 6156, 1st Combined Ed., Apr. 1953 G-1951-789



Joins page 5

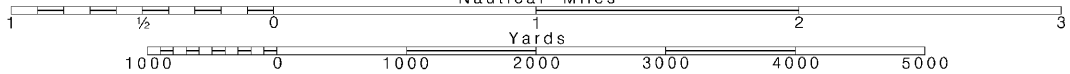
Joins page 10

Note: Chart grid lines are aligned with true north.

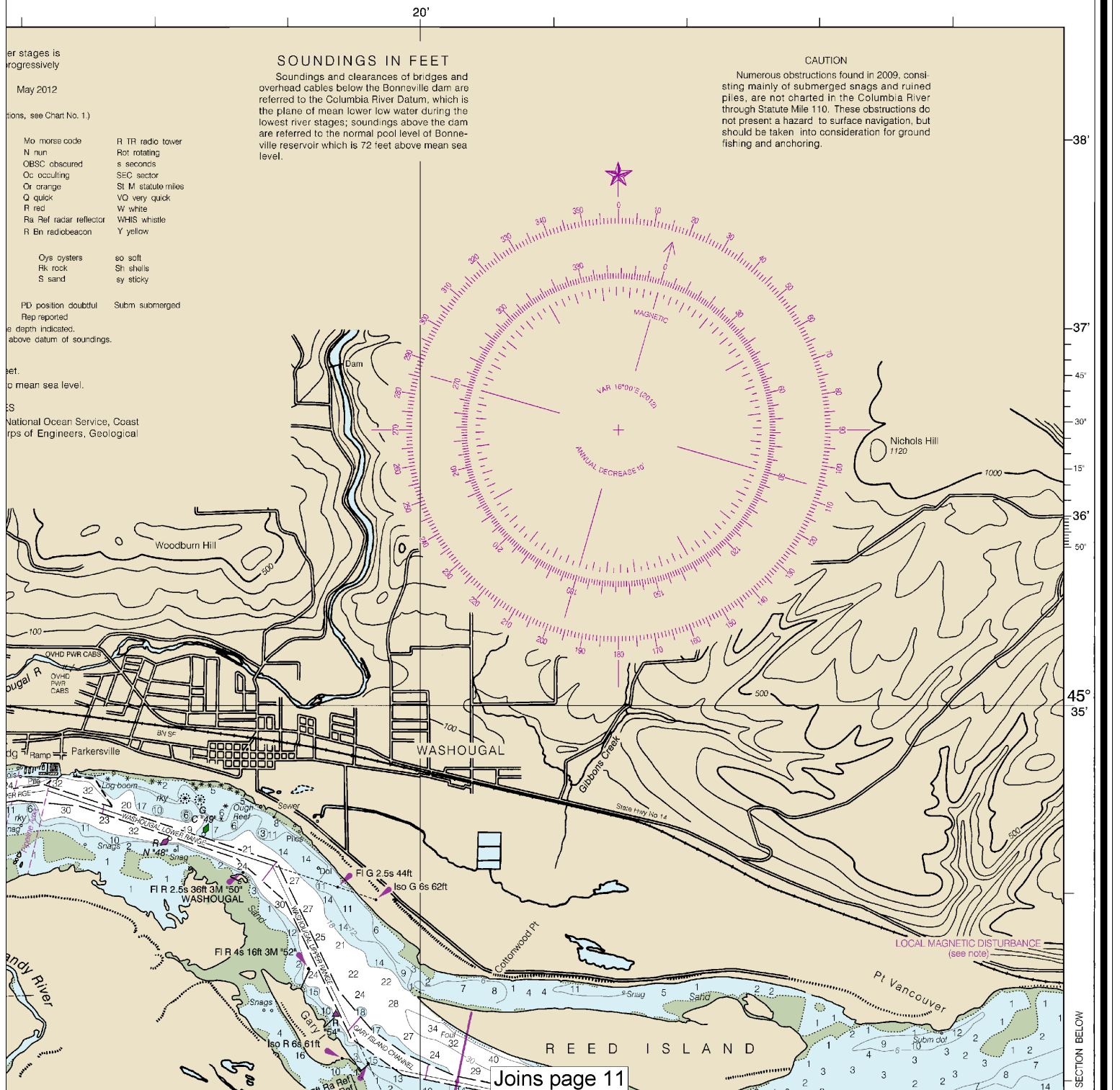
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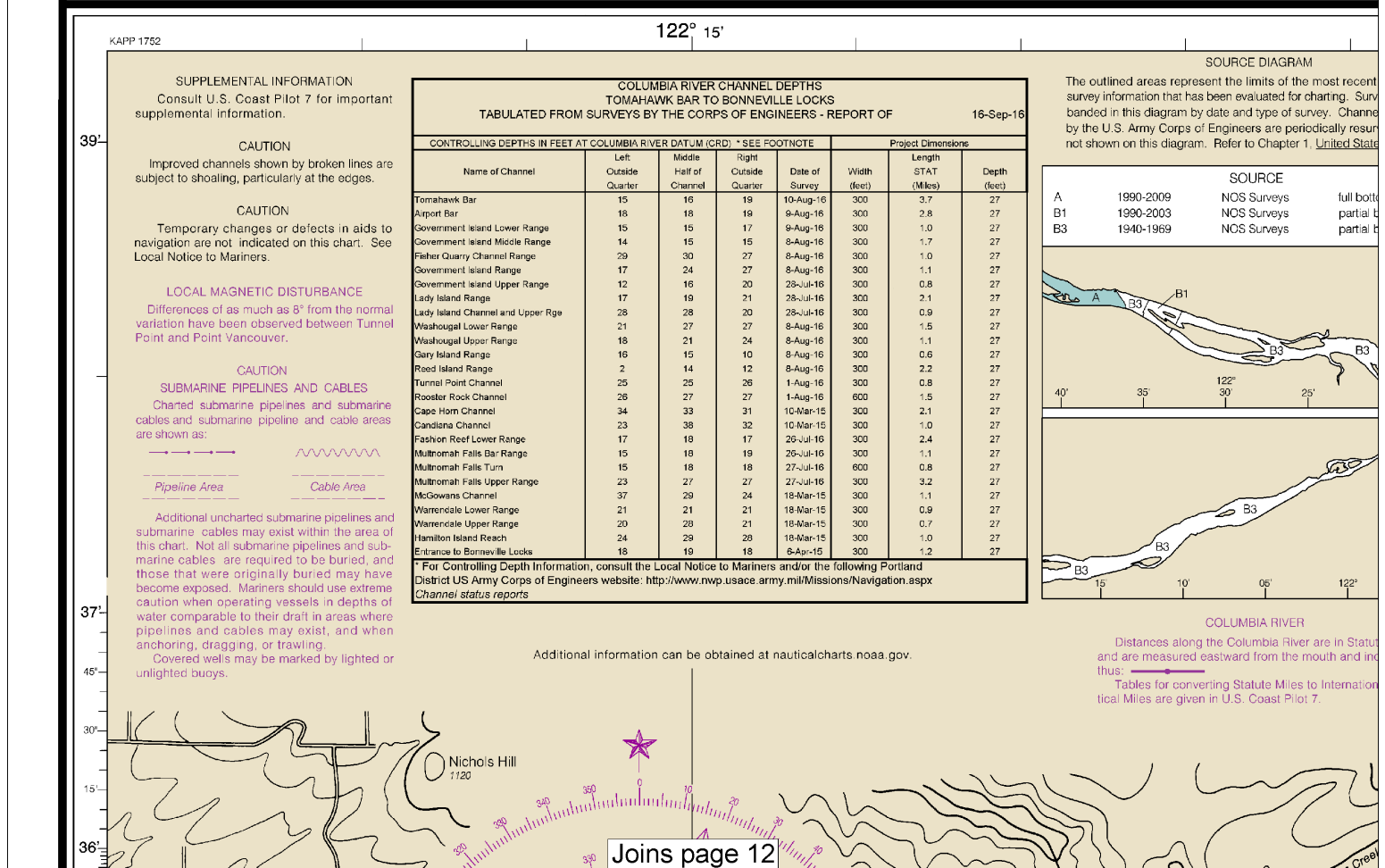
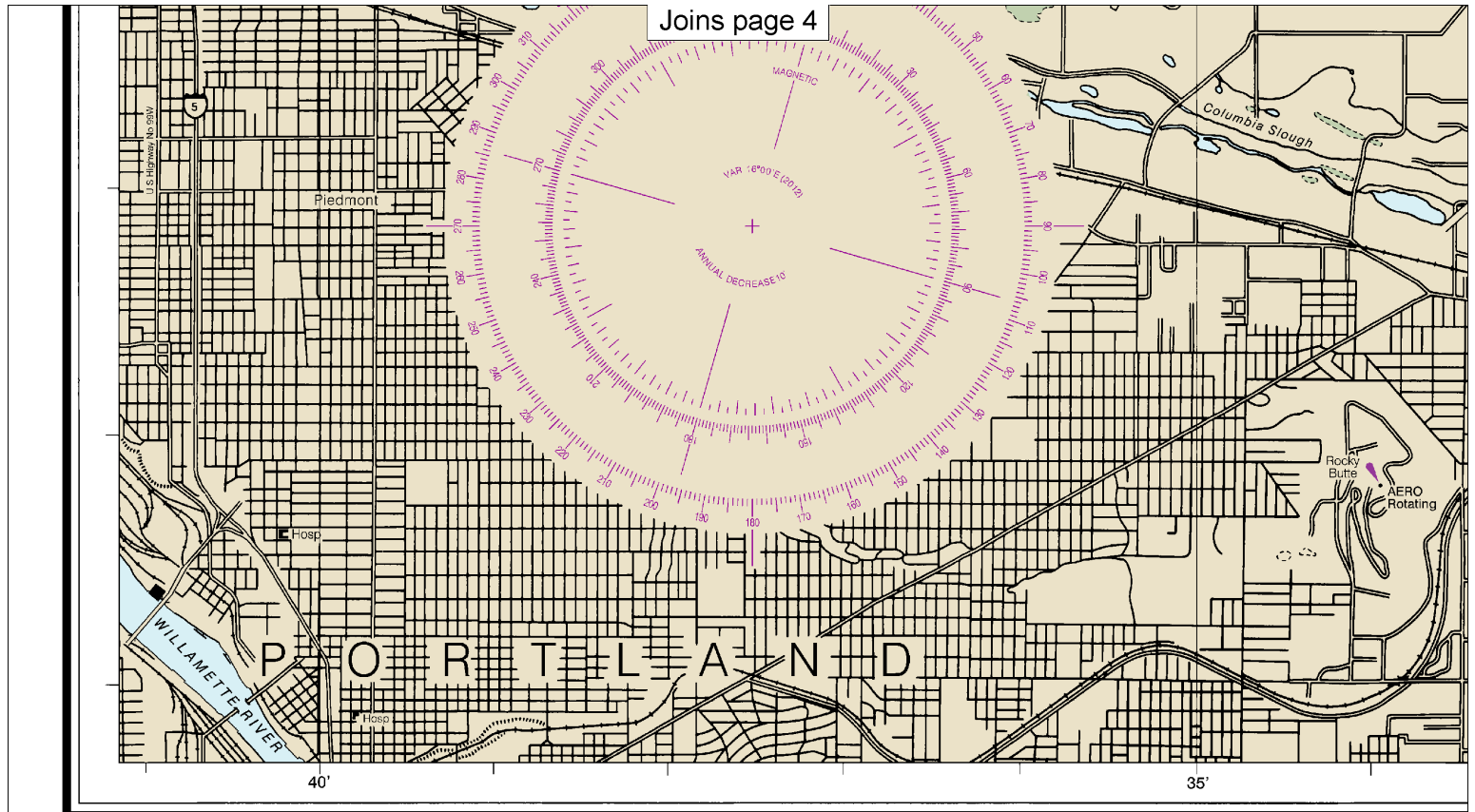
SCALE 1:40,000
Nautical Miles

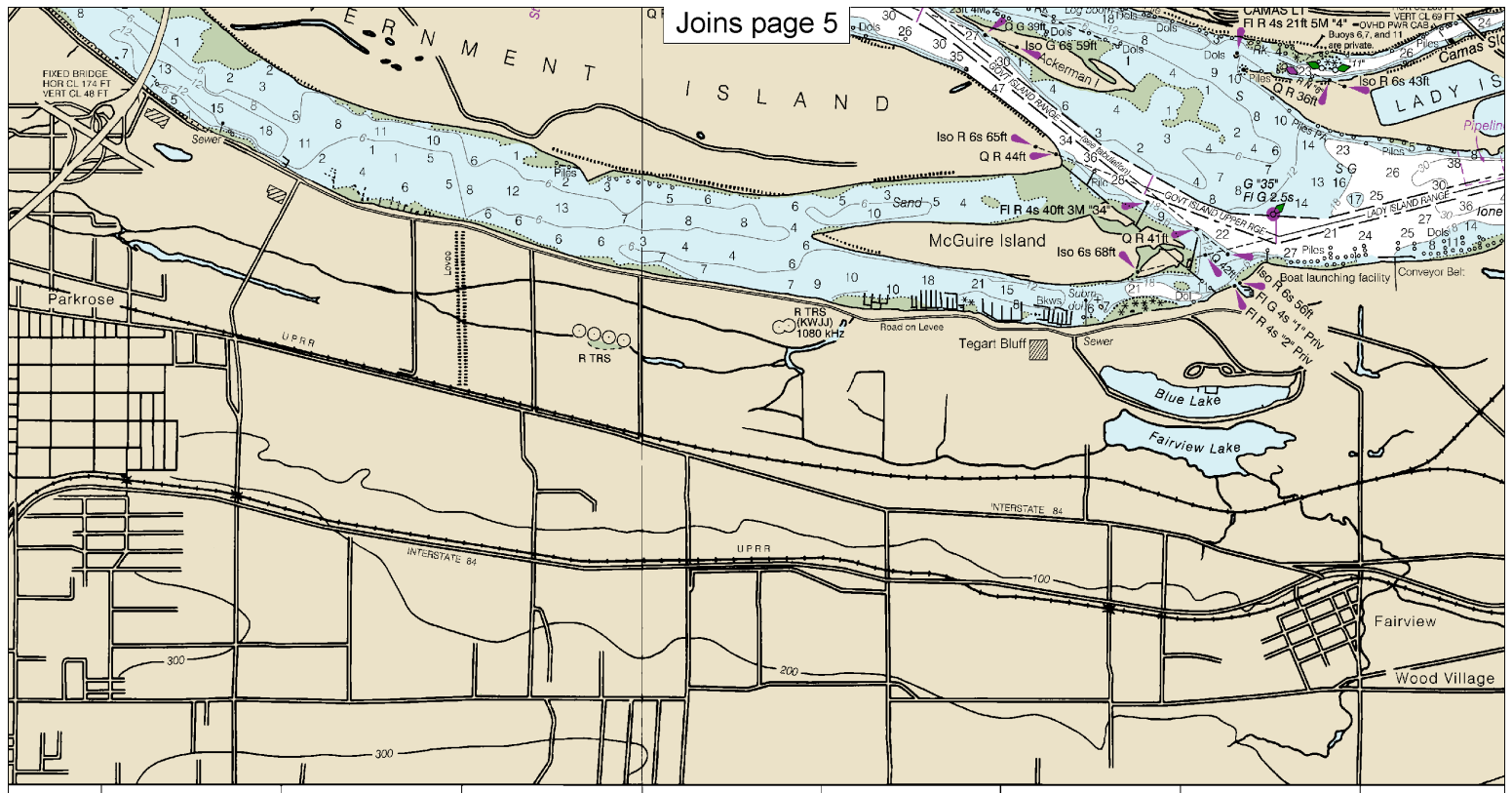
See Note on page 5.



SOUNDINGS IN FEET





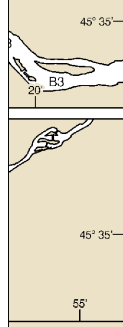


Joins page 5

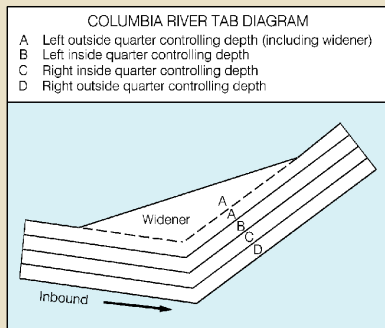


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COLUMBIA RIVER TAB DIAGRAM
 Columbia River main channel - Controlling depths for outside
 quarters include the adjacent widener/fillet when applicable.



Joins page 13

Joins page 10

This nautical chart depicts Reed Island and the surrounding waterways. Key features include:

- Waterways:** Sandy River, Washougal River, Reed Island Channel, and Tunnel Point Channel.
- Islands and Points:** Reed Island, Chamberlain Hill (900 ft), Corbett Pt., and Pt. Vancouver.
- Depth Soundings:** Numerous numerical values indicating water depth in fathoms and meters.
- Navigational Aids:** Various buoys and lights marked with letters (F, G, R, Q, C) and numbers.
- Infrastructure:** Interstate 84 and the UPRR (Union Pacific Railroad) are shown at the bottom.
- Annotations:** "LOCAL MAGNETIC DISTURBANCE (see note)" is noted in the upper right. A vertical line near the top center is labeled "Joins page 7".

This nautical chart depicts the Bonneville area, including Hamilton Island, North Bonneville, and various navigational hazards. The chart features a coordinate grid with longitude (122° to 121° 55') and latitude (41° 56' to 41° 55'). Key locations and features include:

- Geographical Features:** Hamilton Island, North Bonneville, Wauna Pt, Munra Pt, Wauneka Pt, Hamilton Cr, Greenleaf Slough, Eagle Cr, Ruckel Cr, and various points like Cascode Pt, Boat Rk, and Wauna Pt.
- Navigational Hazards:** Several "RESTRICTED AREA" labels are present, along with "O.V.H.D. P.W.R. CABS" (Overhead Power Cables) and "A.U.T.H. CL." (Authorized Clearance) markings.
- Depth Soundings:** Numerous depth soundings are provided in fathoms (e.g., 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000, 1010, 1020, 1030, 1040, 1050, 1060, 1070, 1080, 1090, 1100, 1110, 1120, 1130, 1140, 1150, 1160, 1170, 1180, 1190, 1200, 1210, 1220, 1230, 1240, 1250, 1260, 1270, 1280, 1290, 1300, 1310, 1320, 1330, 1340, 1350, 1360, 1370, 1380, 1390, 1400, 1410, 1420, 1430, 1440, 1450, 1460, 1470, 1480, 1490, 1500, 1510, 1520, 1530, 1540, 1550, 1560, 1570, 1580, 1590, 1600, 1610, 1620, 1630, 1640, 1650, 1660, 1670, 1680, 1690, 1700, 1710, 1720, 1730, 1740, 1750, 1760, 1770, 1780, 1790, 1800, 1810, 1820, 1830, 1840, 1850, 1860, 1870, 1880, 1890, 1900, 1910, 1920, 1930, 1940, 1950, 1960, 1970, 1980, 1990, 2000, 2010, 2020, 2030, 2040, 2050, 2060, 2070, 2080, 2090, 2100, 2110, 2120, 2130, 2140, 2150, 2160, 2170, 2180, 2190, 2200, 2210, 2220, 2230, 2240, 2250, 2260, 2270, 2280, 2290, 2300, 2310, 2320, 2330, 2340, 2350, 2360, 2370, 2380, 2390, 2400, 2410, 2420, 2430, 2440, 2450, 2460, 2470, 2480, 2490, 2500, 2510, 2520, 2530, 2540, 2550, 2560, 2570, 2580, 2590, 2600, 2610, 2620, 2630, 2640, 2650, 2660, 2670, 2680, 2690, 2700, 2710, 2720, 2730, 2740, 2750, 2760, 2770, 2780, 2790, 2800, 2810, 2820, 2830, 2840, 2850, 2860, 2870, 2880, 2890, 2900, 2910, 2920, 2930, 2940, 2950, 2960, 2970, 2980, 2990, 3000, 3010, 3020, 3030, 3040, 3050, 3060, 3070, 3080, 3090, 3100, 3110, 3120, 3130, 3140, 3150, 3160, 3170, 3180, 3190, 3200, 3210, 3220, 3230, 3240, 3250, 3260, 3270, 3280, 3290, 3300, 3310, 3320, 3330, 3340, 3350, 3360, 3370, 3380, 3390, 3400, 3410, 3420, 3430, 3440, 3450, 3460, 3470, 3480, 3490, 3500, 3510, 3520, 3530, 3540, 3550, 3560, 3570, 3580, 3590, 3600, 3610, 3620, 3630, 3640, 3650, 3660, 3670, 3680, 3690, 3700, 3710, 3720, 3730, 3740, 3750, 3760, 3770, 3780, 3790, 3800, 3810, 3820, 3830, 3840, 3850, 3860, 3870, 3880, 3890, 3900, 3910, 3920, 3930, 3940, 3950, 3960, 3970, 3980, 3990, 4000, 4010, 4020, 4030, 4040, 4050, 4060, 4070, 4080, 4090, 4100, 4110, 4120, 4130, 4140, 4150, 4160, 4170, 4180, 4190, 4200, 4210, 4220, 4230, 4240, 4250, 4260, 4270, 4280, 4290, 4300, 4310, 4320, 4330, 4340, 4350, 4360, 4370, 4380, 4390, 4400, 4410, 4420, 4430, 4440, 4450, 4460, 4470, 4480, 4490, 4500, 4510, 4520, 4530, 4540, 4550, 4560, 4570, 4580, 4590, 4600, 4610, 4620, 4630, 4640, 4650, 4660, 4670, 4680, 4690, 4700, 4710, 4720, 4730, 4740, 4750, 4760, 4770, 4780, 4790, 4800, 4810, 4820, 4830, 4840, 4850, 4860, 4870, 4880, 4890, 4900, 4910, 4920, 4930, 4940, 4950, 4960, 4970, 4980, 4990, 5000, 5010, 5020, 5030, 5040, 5050, 5060, 5070, 5080, 5090, 5100, 5110, 5120, 5130, 5140, 5150, 5160, 5170, 5180, 5190, 5200, 5210, 5220, 5230, 5240, 5250, 5260, 5270, 5280, 5290, 5300, 5310, 5320, 5330, 5340, 5350, 5360, 5370, 5380, 5390, 5400, 5410, 5420, 5430, 5440, 5450, 5460, 5470, 5480, 5490, 5500, 5510, 5520, 5530, 5540, 5550, 5560, 5570, 5580, 5590, 5600, 5610, 5620, 5630, 5640, 5650, 5660, 5670, 5680, 5690, 5700, 5710, 5720, 5730, 5740, 5750, 5760, 5770, 5780, 5790, 5800, 5810, 5820, 5830, 5840, 5850, 5860, 5870, 5880, 5890, 5900, 5910, 5920, 5930, 5940, 5950, 5960, 5970, 5980, 5990, 6000, 6010, 6020, 6030, 6040, 6050, 6060, 6070, 6080, 6090, 6100, 6110, 6120, 6130, 6140, 6150, 6160, 6170, 6180, 6190, 6200, 6210, 6220, 6230, 6240, 6250, 6260, 6270, 6280, 6290, 6300, 6310, 6320, 6330, 6340, 6350, 6360, 6370, 6380, 6390, 6400, 6410, 6420, 6430, 6440, 6450,

Pipeline Area

Cable Area

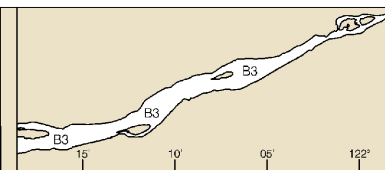
Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling.
Covered wells may be marked by lighted or unlighted buoys.

Multnomah Falls Dam Range	37	29	24
Multnomah Falls Upper Range	21	21	21
McGowan's Channel	20	28	21
Warrenton Lower Range	24	28	29
Warrenton Upper Range	18	19	18
Hamilton Island Reach			
Entrance to Bonneville Locks			

20-Jul-10	300	1.1	27
27-Jul-16	600	0.8	27
27-Jul-16	300	3.2	27
18-Mar-15	300	1.1	27
18-Mar-15	300	0.9	27
18-Mar-15	300	0.7	27
18-Mar-15	300	1.0	27
8-Apr-15	300	1.2	27

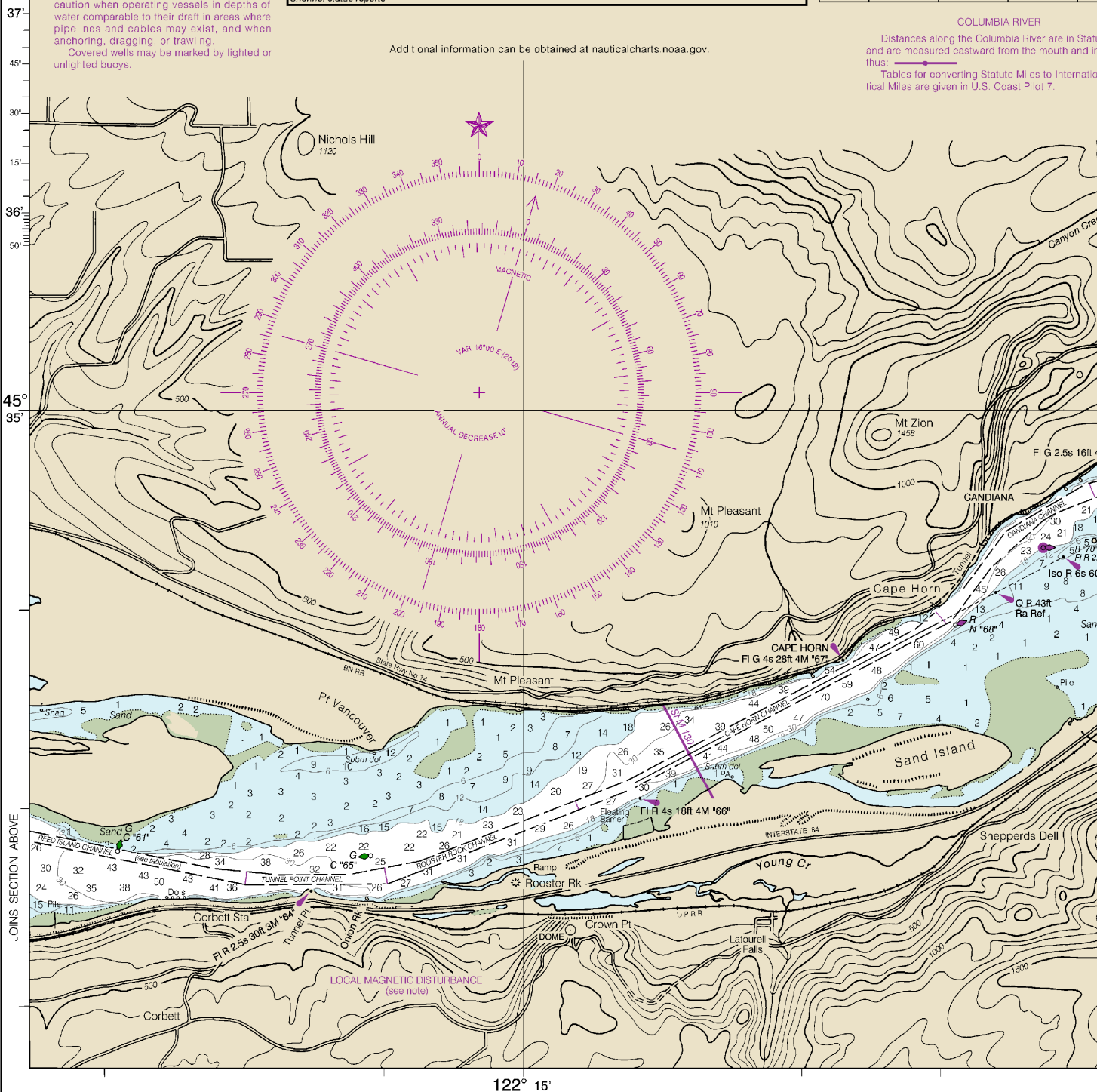
For Controlling Depth Information, consult the Local Notice to Mariners and/or the following Portland District US Army Corps of Engineers website: <http://www.nwp.usace.army.mil/Missions/Navigation.aspx>
Channel status reports

Additional information can be obtained at nauticalcharts.noaa.gov.



COLUMBIA RIVER

Distances along the Columbia River are in Statute Miles and are measured eastward from the mouth and indicated by the red line.
Tables for converting Statute Miles to International Miles are given in U.S. Coast Pilot 7.



CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

NOAA encourages users to submit inquiries, discrepancies or comments about this chart at <http://www.nauticalcharts.noaa.gov/staff/contact.htm>.

18531

23rd Ed., Jun. 2012. Last Correction: 11/28/2016. Cleared through:
LNM: 4816 (11/29/2016), NM: 5016 (12/10/2016), CHS: 1116 (11/25/2016)

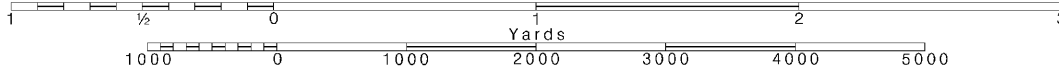
12

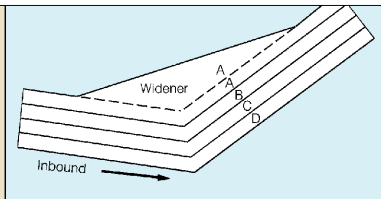
Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:40,000
Nautical Miles

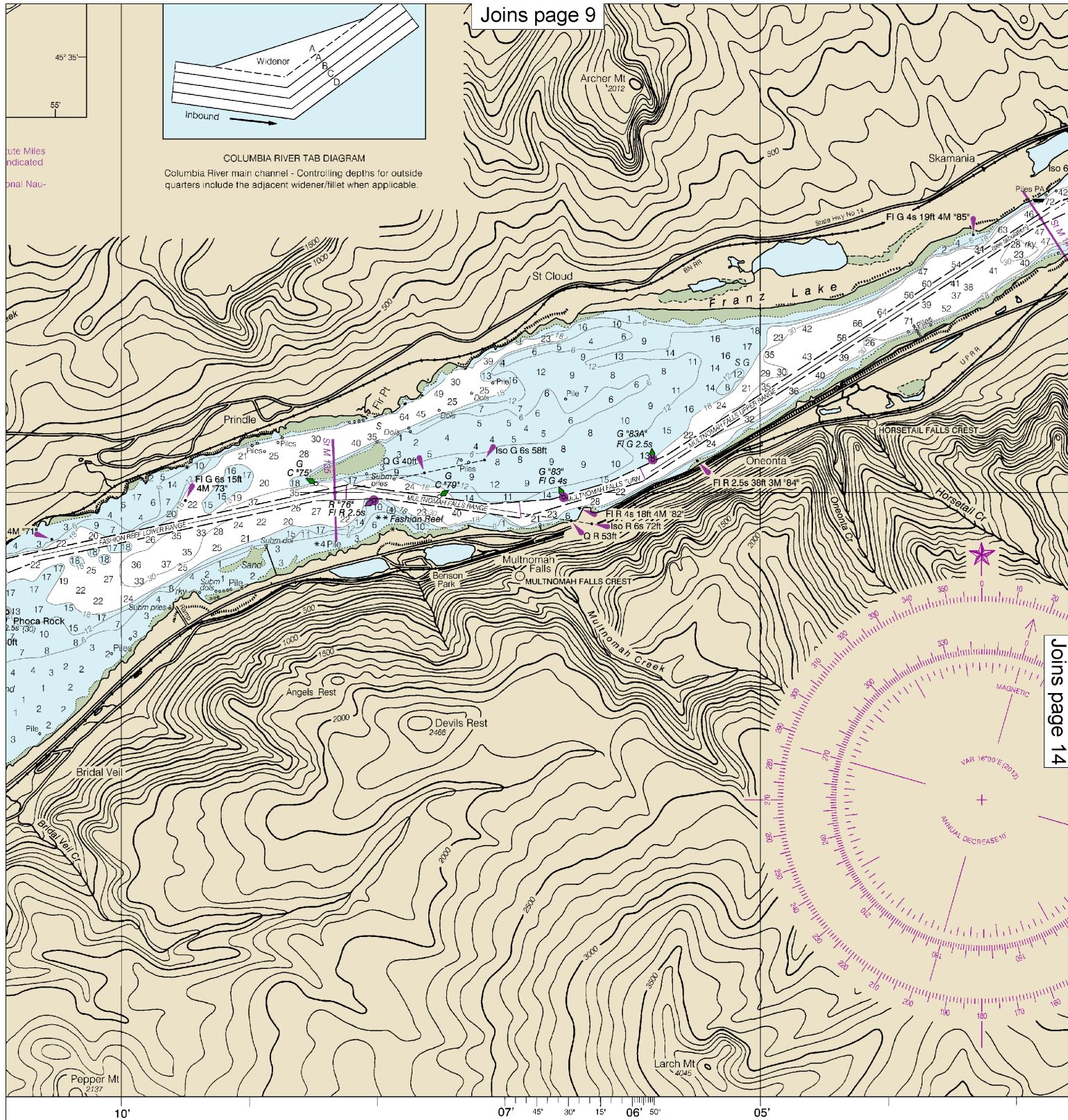
See Note on page 5.





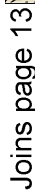
COLUMBIA RIVER TAB DIAGRAM

Columbia River main channel - Controlling depths for outside quarters include the adjacent widener/fillet when applicable.

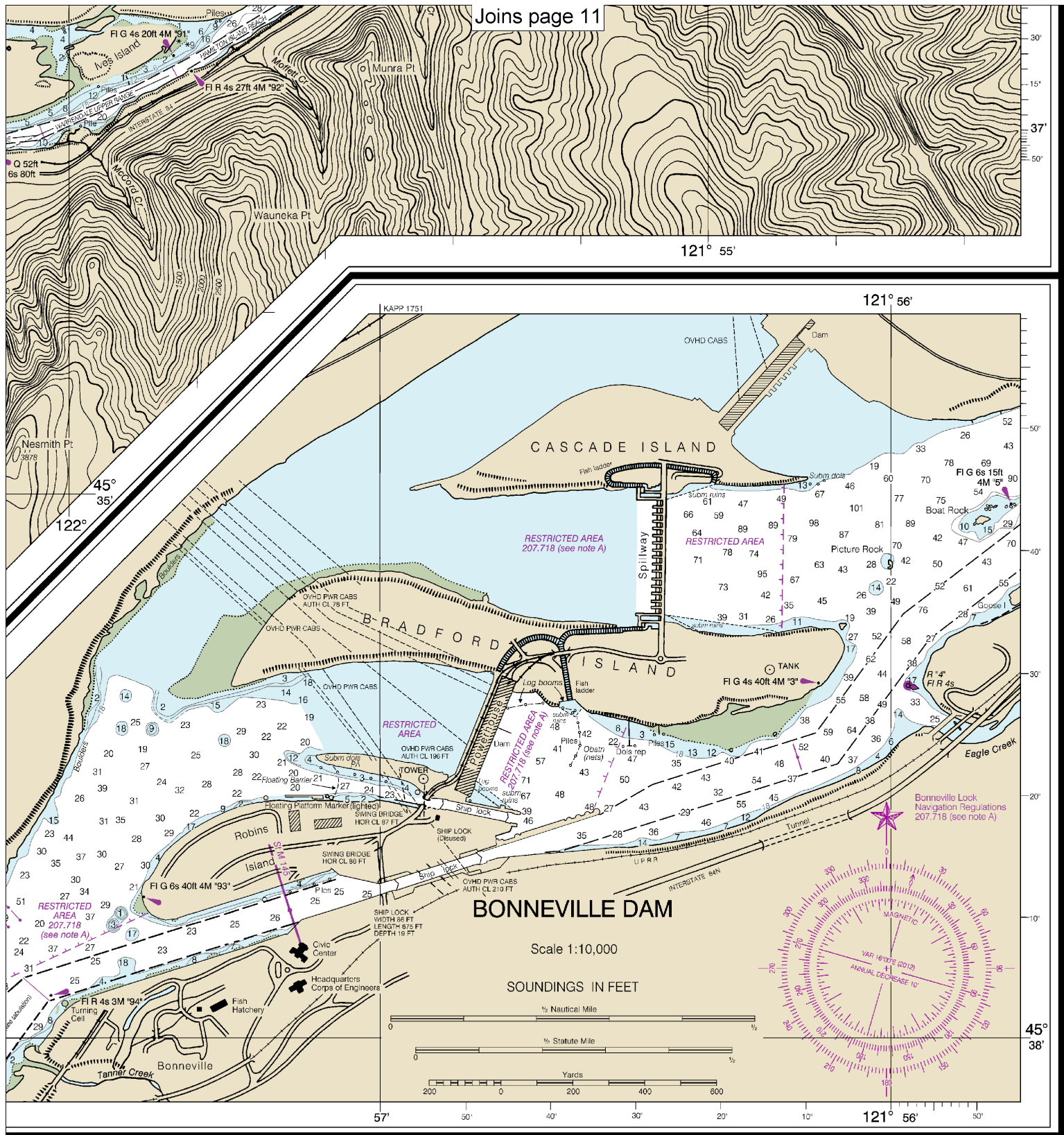


SOUNDINGS IN FEET

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY



FATHOMS	1
FEET	6
METERS	1.1



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68
69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102

Columbia River - Vancouver to Bonneville
SOUNDINGS IN FEET - SCALE 1:40,000

18531



VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other

vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

Channels 68, 69, 71, 72 and 78A – Recreational boat channels.

Getting and Giving Help — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.

Distress Call Procedures

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
- Release transmit button.
- Wait for 10 seconds — If no response Repeat MAYDAY call.

HAVE ALL PERSONS PUT ON LIFE JACKETS!



NOAA Weather Radio All Hazards (NWR) is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.

<http://www.nws.noaa.gov/nwr/>

Quick References

Nautical chart related products and information	—	http://www.nauticalcharts.noaa.gov
Interactive chart catalog	—	http://www.charts.noaa.gov/InteractiveCatalog/nrnc.shtml
Report a chart discrepancy	—	http://ocsddata.ncd.noaa.gov/idrs/discrepancy.aspx
Chart and chart related inquiries and comments	—	http://ocsddata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs
Chart updates (LNM and NM corrections)	—	http://www.nauticalcharts.noaa.gov/mcd/updates/LNM_NM.html
Coast Pilot online	—	http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm
Tides and Currents	—	http://tidesandcurrents.noaa.gov
Marine Forecasts	—	http://www.nws.noaa.gov/om/marine/home.htm
National Data Buoy Center	—	http://www.ndbc.noaa.gov/
NowCoast web portal for coastal conditions	—	http://www.nowcoast.noaa.gov/
National Weather Service	—	http://www.weather.gov/
National Hurricane Center	—	http://www.nhc.noaa.gov/
Pacific Tsunami Warning Center	—	http://ptwc.weather.gov/
Contact Us	—	http://www.nauticalcharts.noaa.gov/staff/contact.htm



— For the latest news from Coast Survey, follow **@NOAAcharts**



This Booklet chart has been designed for duplex printing (printed on front and back of one sheet). If a duplex option is not available on your printer, you may print each sheet and arrange them back-to-back to allow for the proper layout when viewing.